

19 February 1963

MEMORANDUM FOR THE RECORD

FROM : [REDACTED]
SUBJECT : SBC-1 Evaluation

25X1A9a

25X1A6d at 1. In December 1962, twelve TMC-SBC-1 SSB converters were received at [REDACTED], T&I Section for test and acceptance.

25X1A6b
2. All twelve converters were rejected by T&I for a variety of faults. As part of their work on the SSB multiplex system for [REDACTED] ESB engineers [REDACTED] conducted an intensive evaluation of the converter. The first step was to have ESB and [REDACTED] engineers inspect the unit at T&I.

25X1A9a

25X1A5a1

3. The following is a listing of the general nature of faults and defects found.

a. Units were received at T&I in a condition which made it difficult to believe they had been properly tested and inspected at the factory.

1. Units had many sections grossly misaligned.
2. Many levels and controls were not properly adjusted and set.
3. Various components, such as tubes, capacitors, vari-caps, chokes, and potentiometers had failed.
4. The hum level at 60 and 120 cycles did not meet the specified level of -50 db. The source was traced to the product detector tube.
5. When the ovens in the AFC unit activated, they caused a noise burst which interfered with the signal from the output of the converter, causing teletype errors.

4. After investigating seven units it became obvious that all units should be returned to the factory for repair and redesign where necessary. Two of the "best" units were retained by ESB for further evaluation.

5. During the

MISSING PAGE

ORIGINAL DOCUMENT MISSING PAGE(S):

2